

Remembering nature | A dementia village in Utby



AUT164

Future visions for healthcare, housing and work 1:
Residential healthcare - housing for seniors

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Site analysis



The analysis provided an essential overview of the area surrounding the plot. Especially important to highlight is the existing nature, including the trees as well as the highest point on the property. These aspects are very relevant when working with the existing topography and could provide natural boundaries for the plot and project, especially towards adjacent houses and roads. Additionally existing functions were mapped that could be incorporated into the project. These include for example the kindergarten and currently existing allotment gardens. Also important was taking a look at the street network to further understand access points to the plot.



Scale 1.1000

Concept

Through the analysis main concepts were developed. The concept defines how the plot and topography is handled as well as the arrangements of the units and common functions on the plot. The concepts also define how the (built) environment relates to the residents as well as to the existing community. They describe more in-depth how the dementia village is working in itself.

Relevant for the project was also providing the residents with options, in regard to what environment they would like to linger in as well as giving options of choosing to do activities on their own or connecting with others.

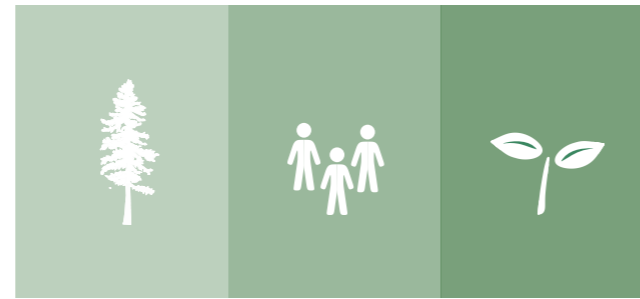
Especially important is to provide the residents with circular movement as opposed to creating dead ends. Meaning also to create the ability for residents to move around freely through making the plot accessible.

Preserving nature where possible and working with the topography and nature was another essential aspect for the concept of the project.

In regard to the built environment it was especially important to work with views and sight lines. Each unit has a view towards greenery and nature.

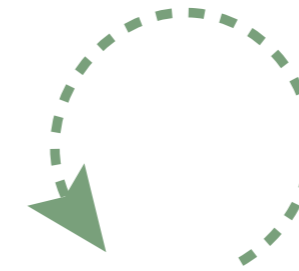
The buildings are connected through having a common center, which provides the entrances as well as a direct connection to activities and common areas.

The arrangement of buildings also opens up different areas that allow for different outdoor activities taking place. Different outdoors environments and the built environment are directly connected and intertwined.



Options

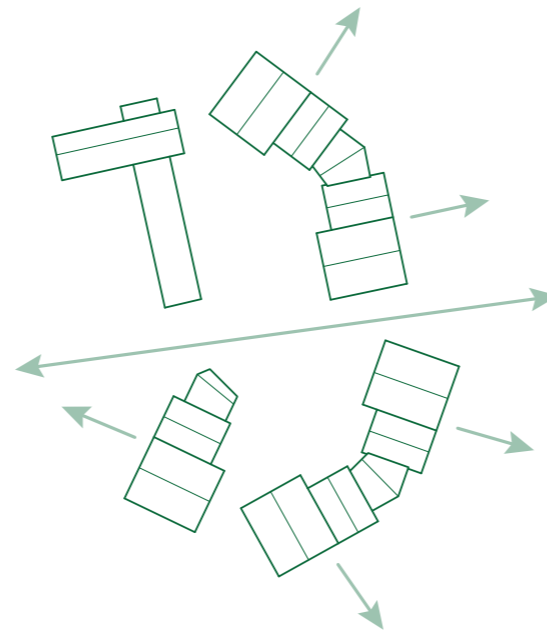
- Forest | Natural environment
- Activity and interaction
- Garden and cultivation



Movement and circulation

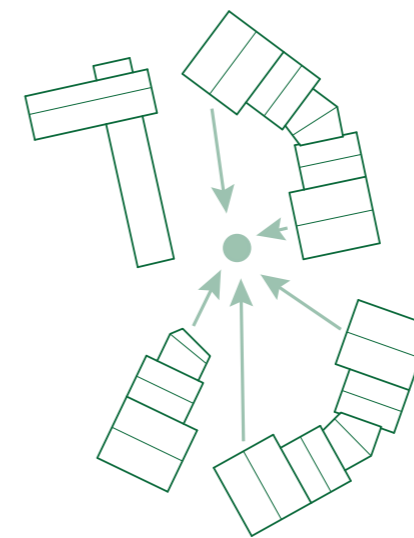


Work with the nature and topography



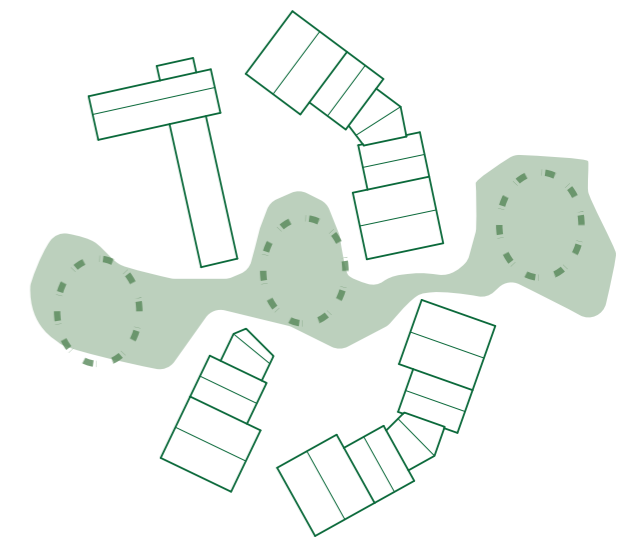
Views

- Through the site | facility
- Views in different directions for each unit



Connection

- Connection to the activity | Common areas



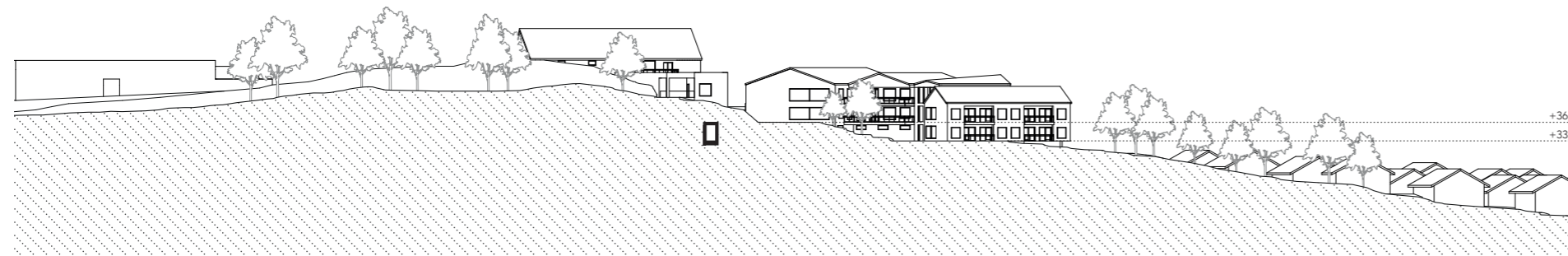
Interconnection

- Greenery and options of movement and activities

Site plan



Site plan | 1.1000



Landscape section A | 1.1000

The main access to the plot lies in the west. The community has smaller informal access points to the plot in the east. Access for the fire department, waste and delivery is also provided in the west.

One building frames the plot in the northwest and contains the staff areas as well as the main entrance, restaurant and additional functions for the residents. The staff has a separate entrance. To create easy access for the residents as well as staff to reach all the functions, a center square was created that allows for equal access to all units. The square is divided into two. In the western part it has qualities of a shopping avenue, allowing for slow strolling along the facade of the main building and shops. In the east there are a few more activities and space for interaction. The square is embedded into the topography and the natural terrain is partly preserved.

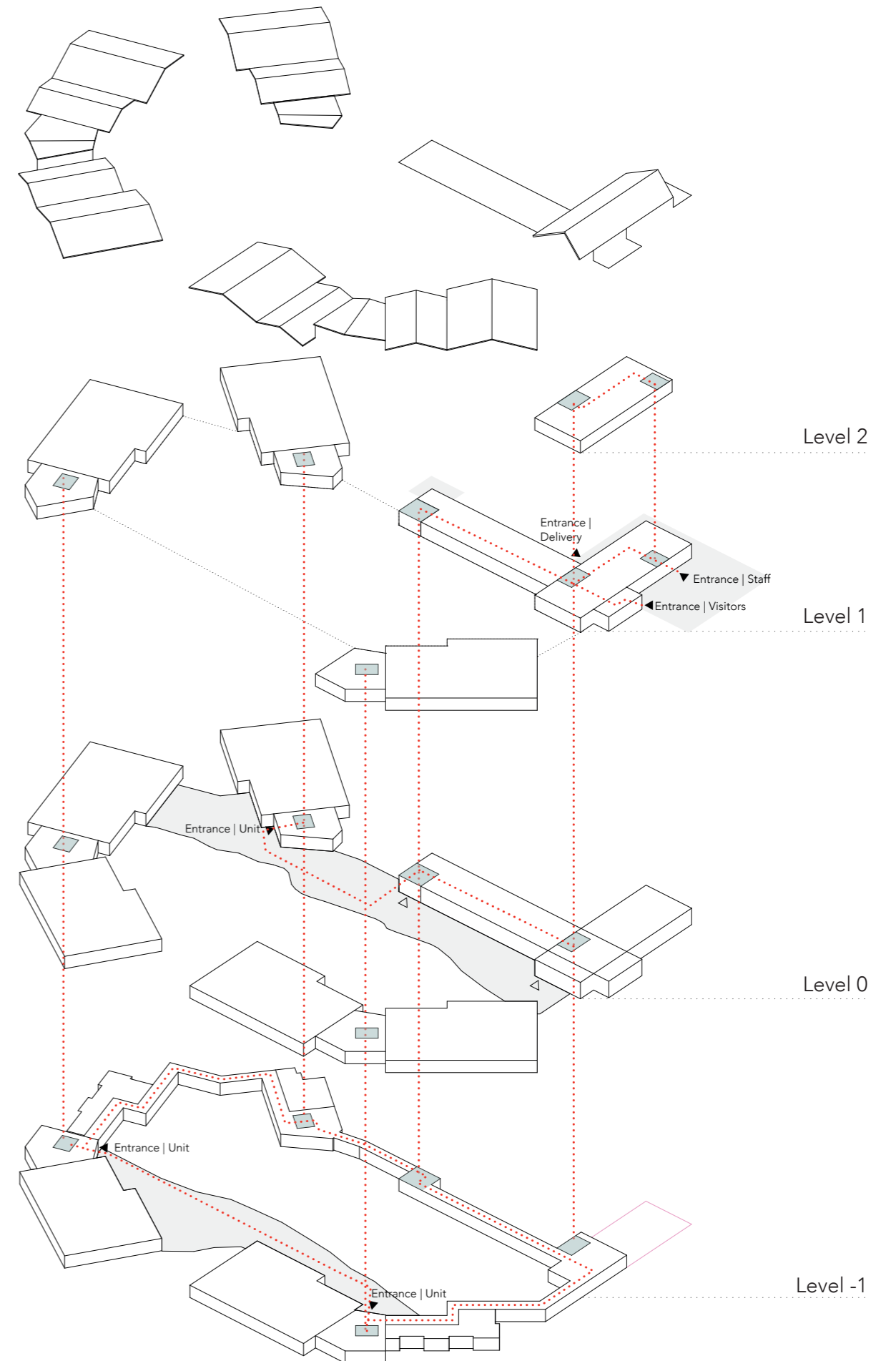
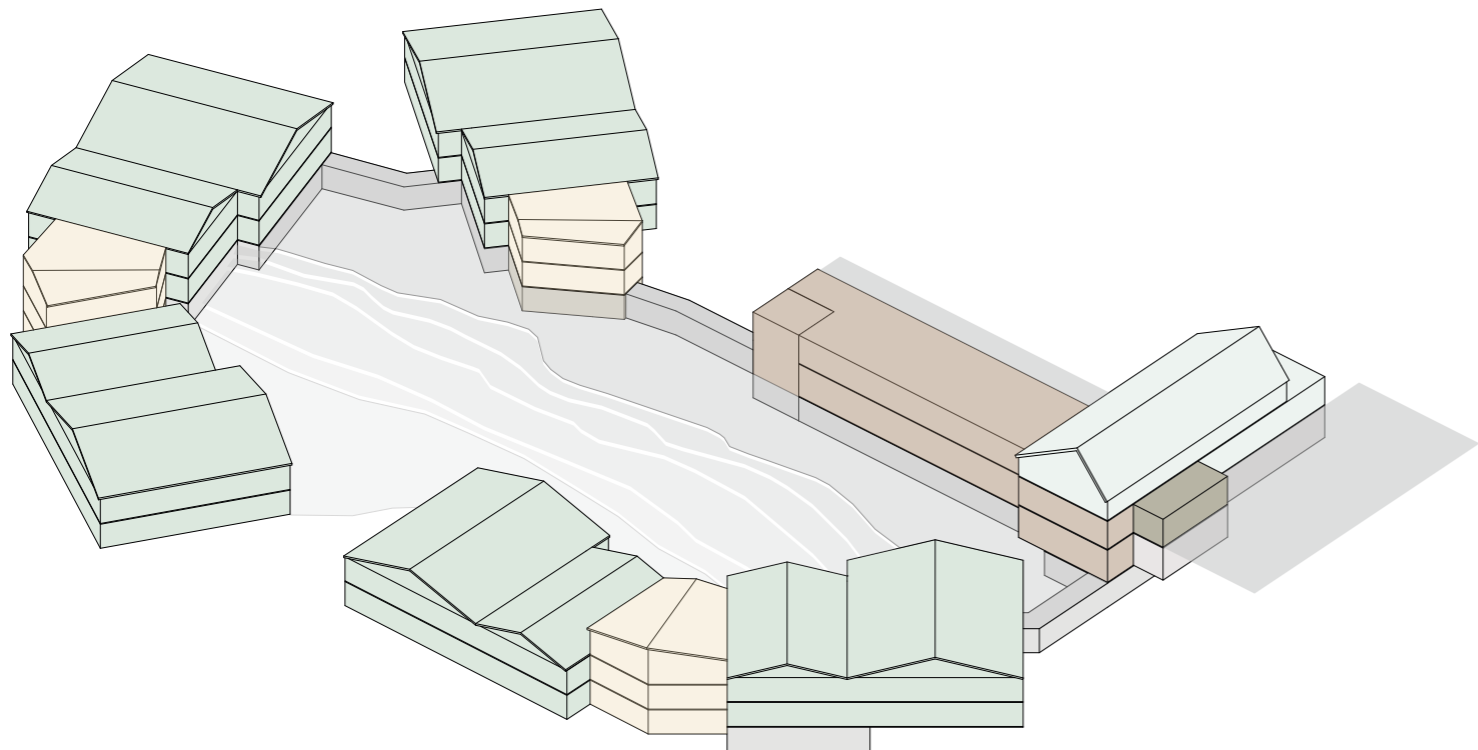
To provide the residents with different environmental stimuli the natural environment in the west of the plot is preserved as the „forest“ and a path is leading through it, connecting square and forest area. The main building provides internal vertical circulation and direct access to the forest environment. The position of the main building and residential units creates a clear sight line from west to east. Additionally the units are rotated in slight angles to each other to avoid apartments directly facing each other. In the south-east of the plot a garden with a greenhouse is located. It continues the theme of the existing allotment gardens. The garden can also be used for common activities of the residents and preschool.

1. Main entrance
2. Waste
3. Delivery
4. Parking
5. Church
6. Square
7. Forest
8. Activity area (boule, barbecue)
9. Garden

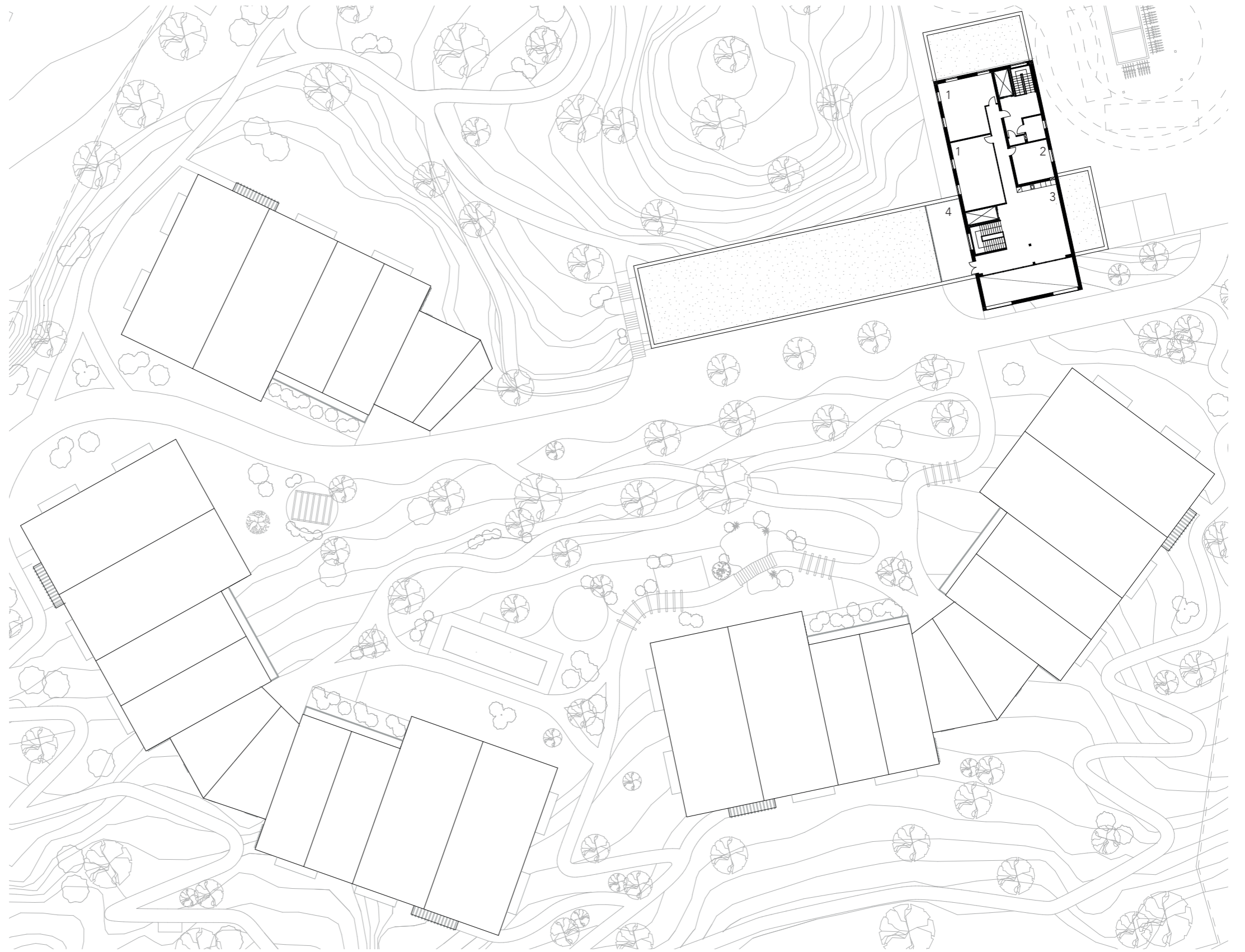
Movement and functions

- Entrance, reception
- Common and public facilities
- Staff area
- Basement (communication staff, storage, support functions)
- Units
- Vertical communication, common area shared between units

Area of plot:	22 600 sqm
Total area (BTA):	9300 sqm
Unit (BTA):	546 sqm
Shared area in the unit:	175 sqm
Apartment:	33,5 sqm
Units	10
Apartments	80



Level 2 | Staff area

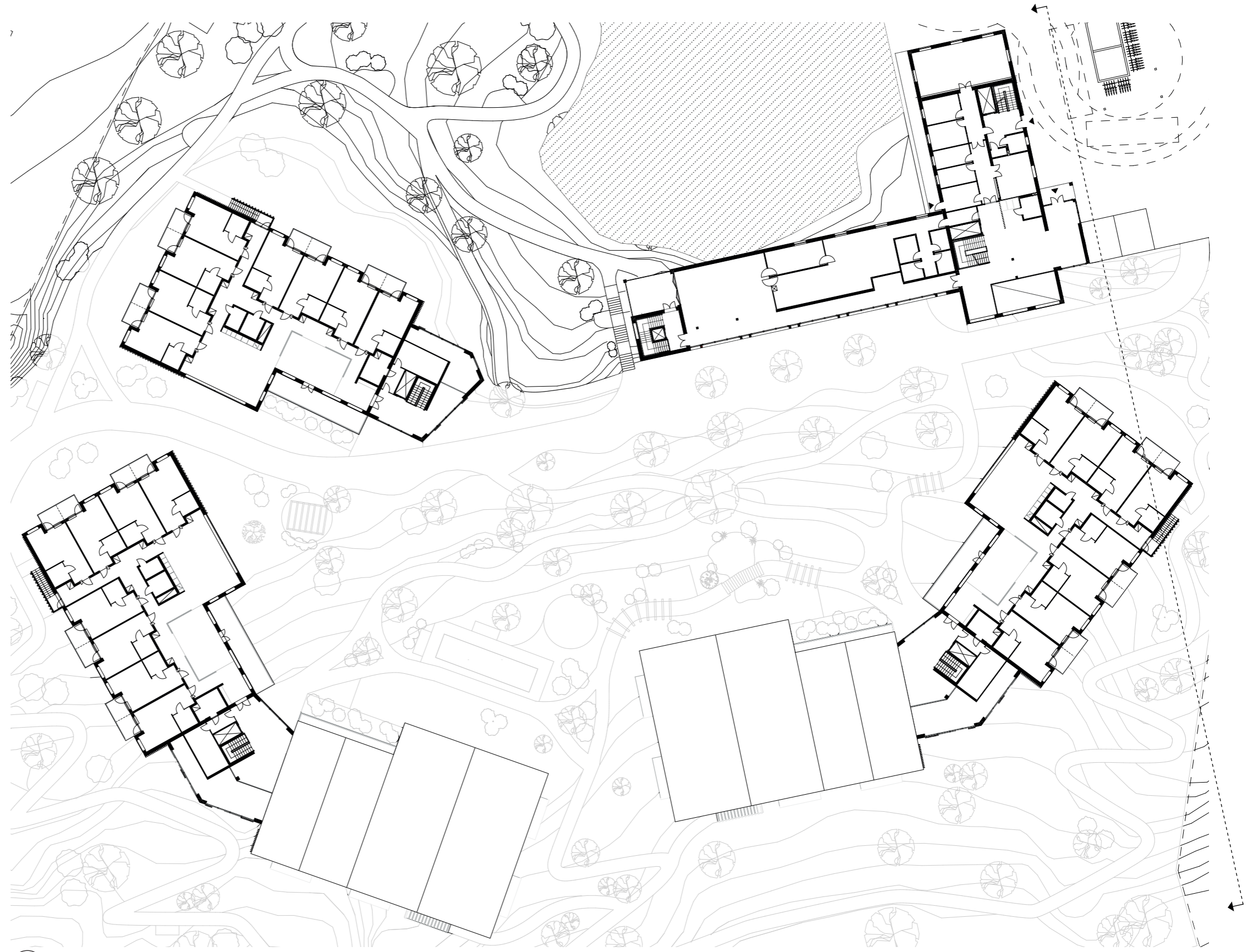


- 1 Changing room
- 2 Laundry
- 3 Staff area | break room
- 4 Staff area | terrace

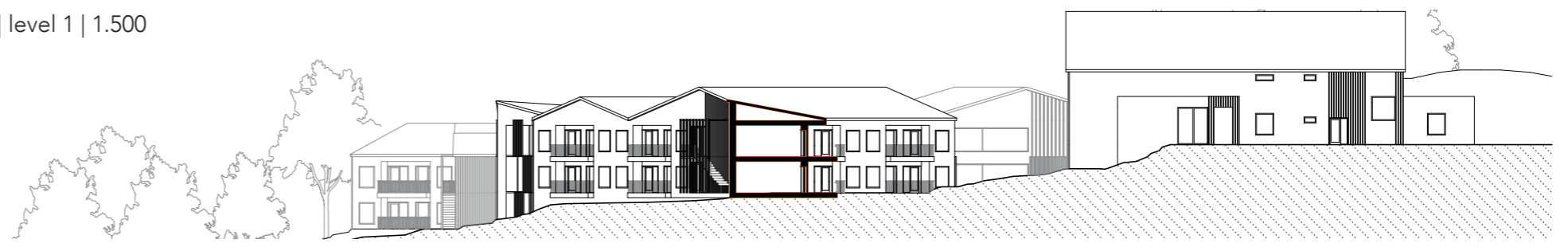
⊖ Floor plan | level 2 | 1.500

0 25m

Level 1 |
Main Entrance |
Administration |
Restaurant



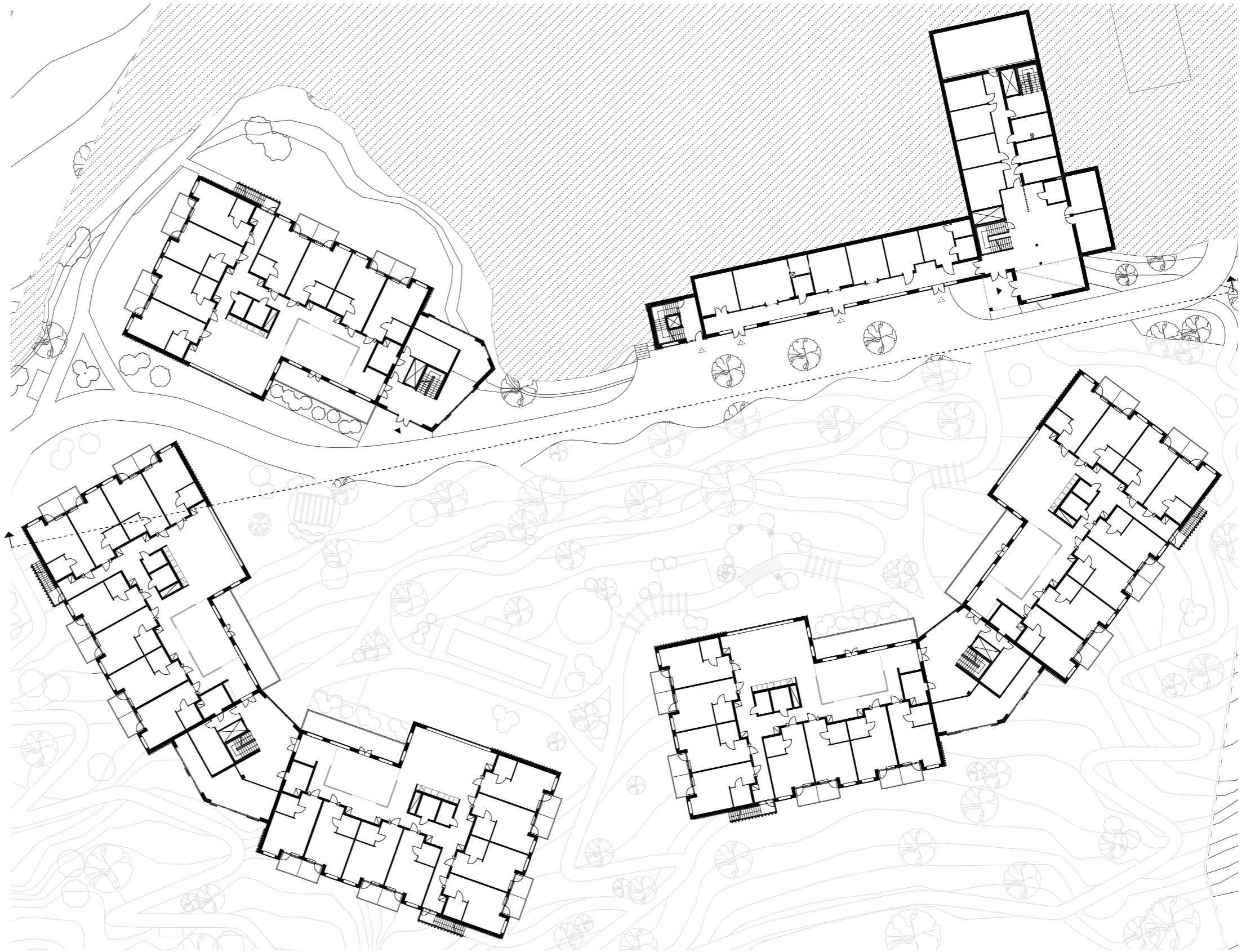
⊖ Floor plan | level 1 | 1.500



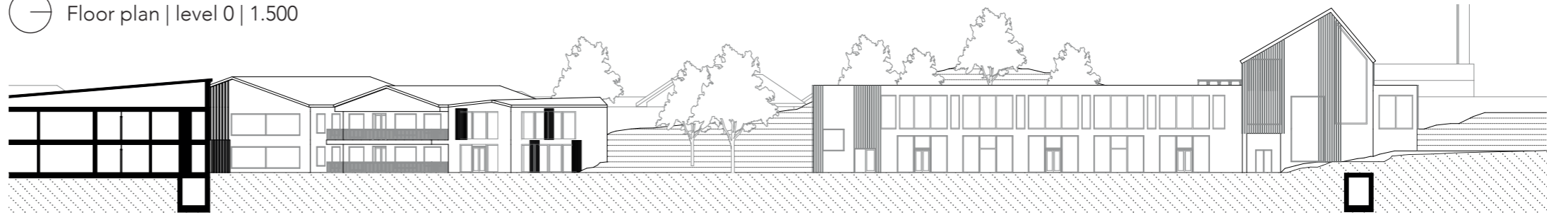
Elevation | Main entrance | 1.500

0 25m

Level 0 |
Additional functions |
Units



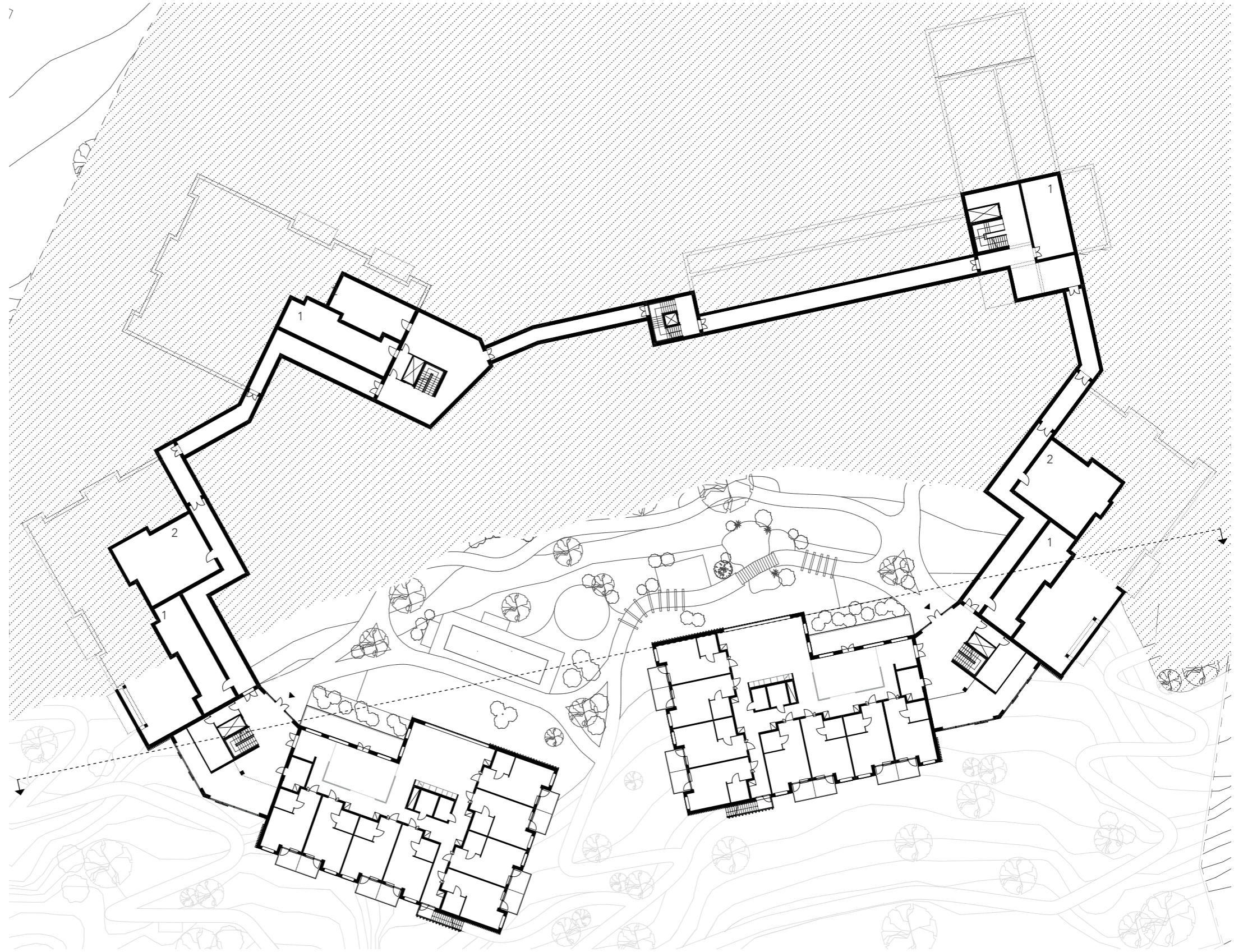
⊖ Floor plan | level 0 | 1.500



Elevation | Main entrance | 1.500

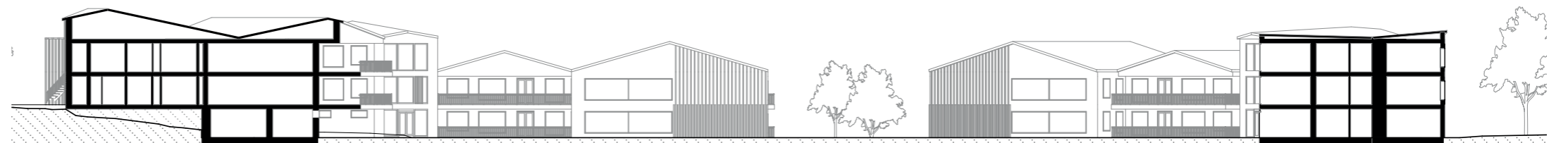
0 25m

Plan -1 |
Staff circulation |
Basement



- 1 Storage
- 2 Ventilation

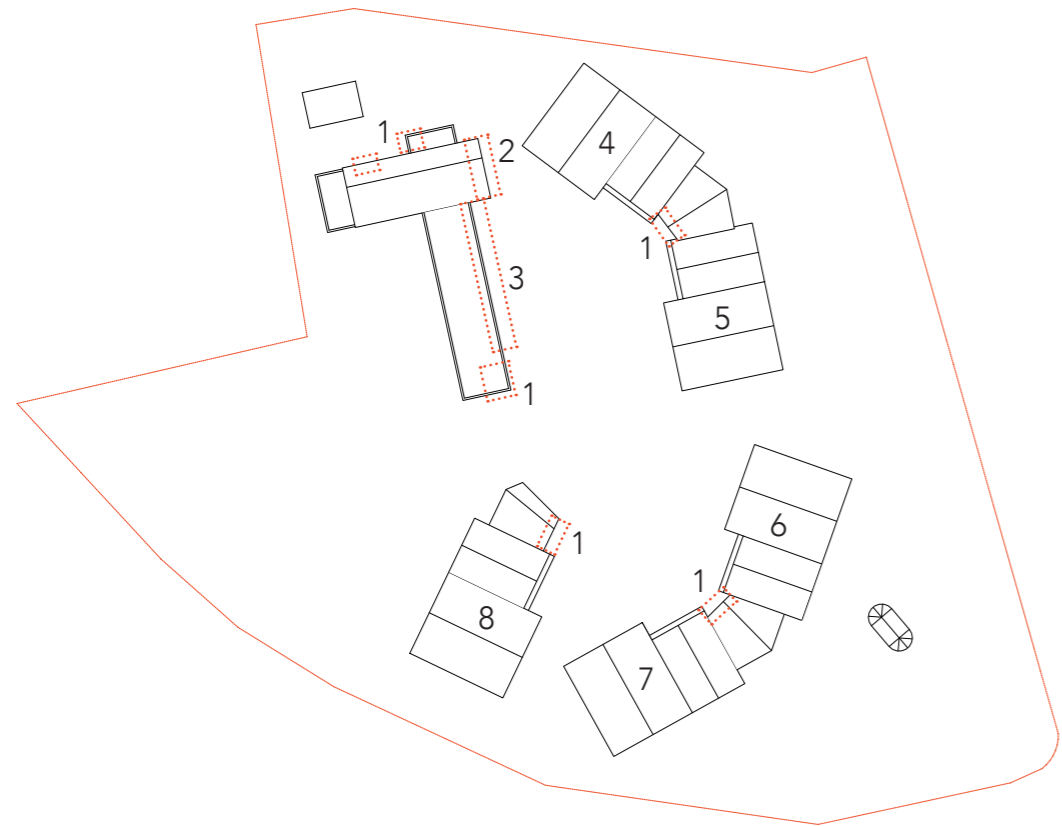
⊖ Floor plan | level -1 | 1.500



Elevation | Main entrance | 1.500

0 25m

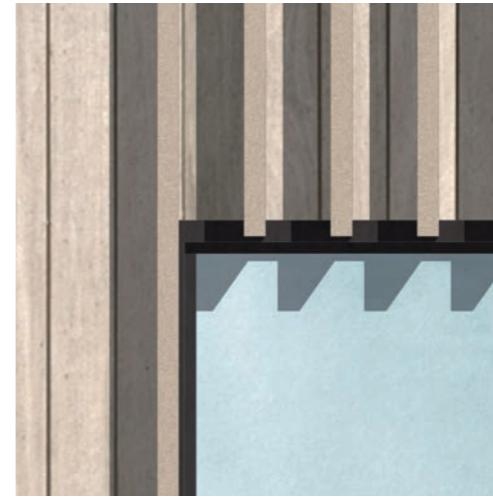
Facade concept



standard facade



1 | panels entrances



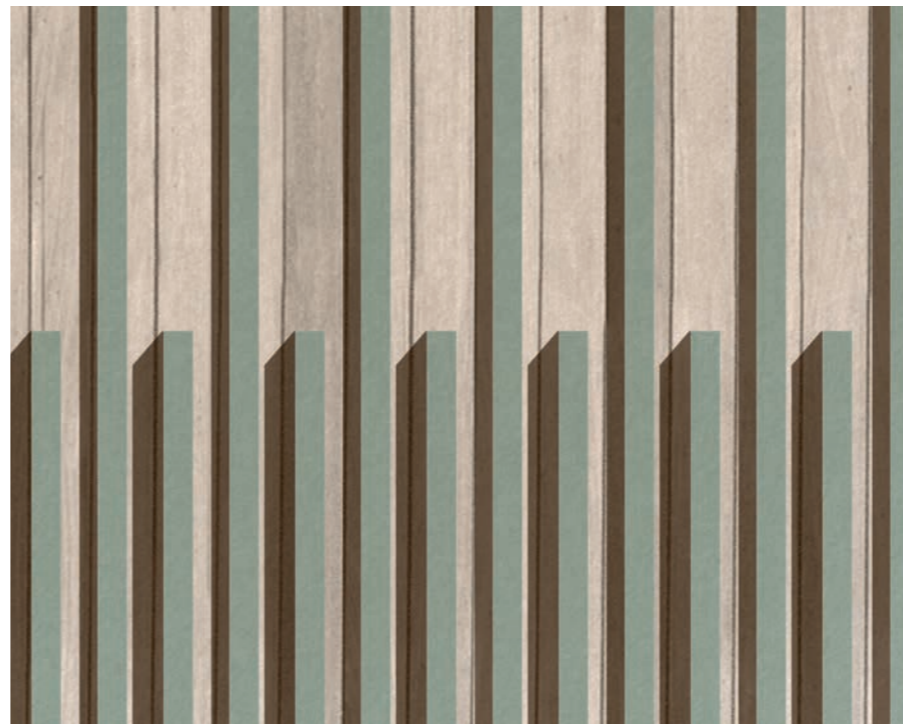
3 | facade additional functions level 0



2 | panels main building



4 | panels residential units



5



6



7



8



The facade for all buildings consists of wooden cladding. Wooden panels, mounted on the cladding visually set apart the individual buildings as well as highlighting entrances of a building.

The entrances have panels that are stained in a similar way as the wooden cladding. The facade of the administrative building towards the square has, in contrast, darker wooden panels. The panels located at the entrances and administrative building are partially located in front of windows providing an interesting back and forth of light and shadow on the inside.

The five unit buildings have colored wooden panels to set the individual buildings apart.

The facade of the main building towards the square is made of wooden shingles as to set apart the area where the additional functions for the residents are located. Beside visual stimulus provide the wooden shingles as well as the wooden, colorful panels also tactile stimulus for the residents.



Perspective, restaurant

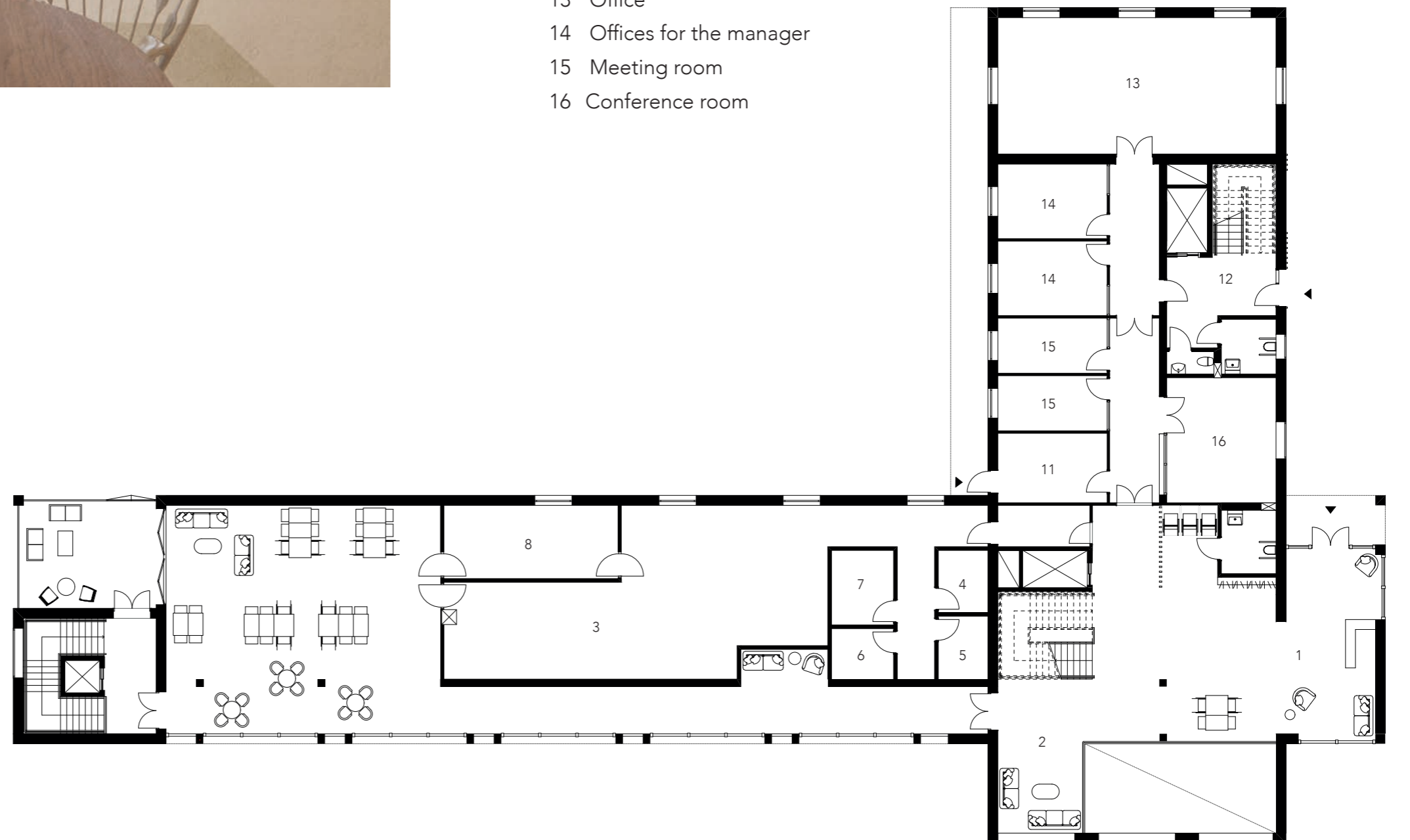
This building represents the main connector from the arrival area in the west to the main plateau and the remaining functions. The building is embedded in the mountain and needed functions are distributed within the building accordingly. Storage can be found where there is no natural light, as opposed to the main working areas such as offices and also break rooms, that are in need of sufficient natural light.

Level 1 contains the main entrance for visitors as well as a separate staff entrance. The staff entrance leads to the changing rooms and break area on level 2. Level 1 contains offices and meeting rooms for the administration. The entrance and foyer are directly connected to the restaurant area. Kitchen functions and delivery are located towards the mountain at the back of the building. The restaurant is not only accessible for the residents, but is additionally open for the public to use. The restaurant seating areas is facing the main square. In addition there is a view towards the forest area and a terrace also providing direct access to the forest. There is a direct connection to elevators leading to level -1 to provide the residential units with food. The staircase close to the restaurant also provides direct access to the main square on level 0.

Different seating areas are located in between foyer and restaurant. An open staircase is leading to level 0 of the main building and to the main square.

Main building | Level 1

- 1 Main entrance/foyer
- 2 Seating area
- 3 Kitchen
- 4 Fridge
- 5 Freezer
- 6 Storage
- 7 Preparation room
- 8 Dish room
- 9 Restaurant
- 10 Terrace
- 11 Delivery
- 12 Entrance staff, delivery
- 13 Office
- 14 Offices for the manager
- 15 Meeting room
- 16 Conference room

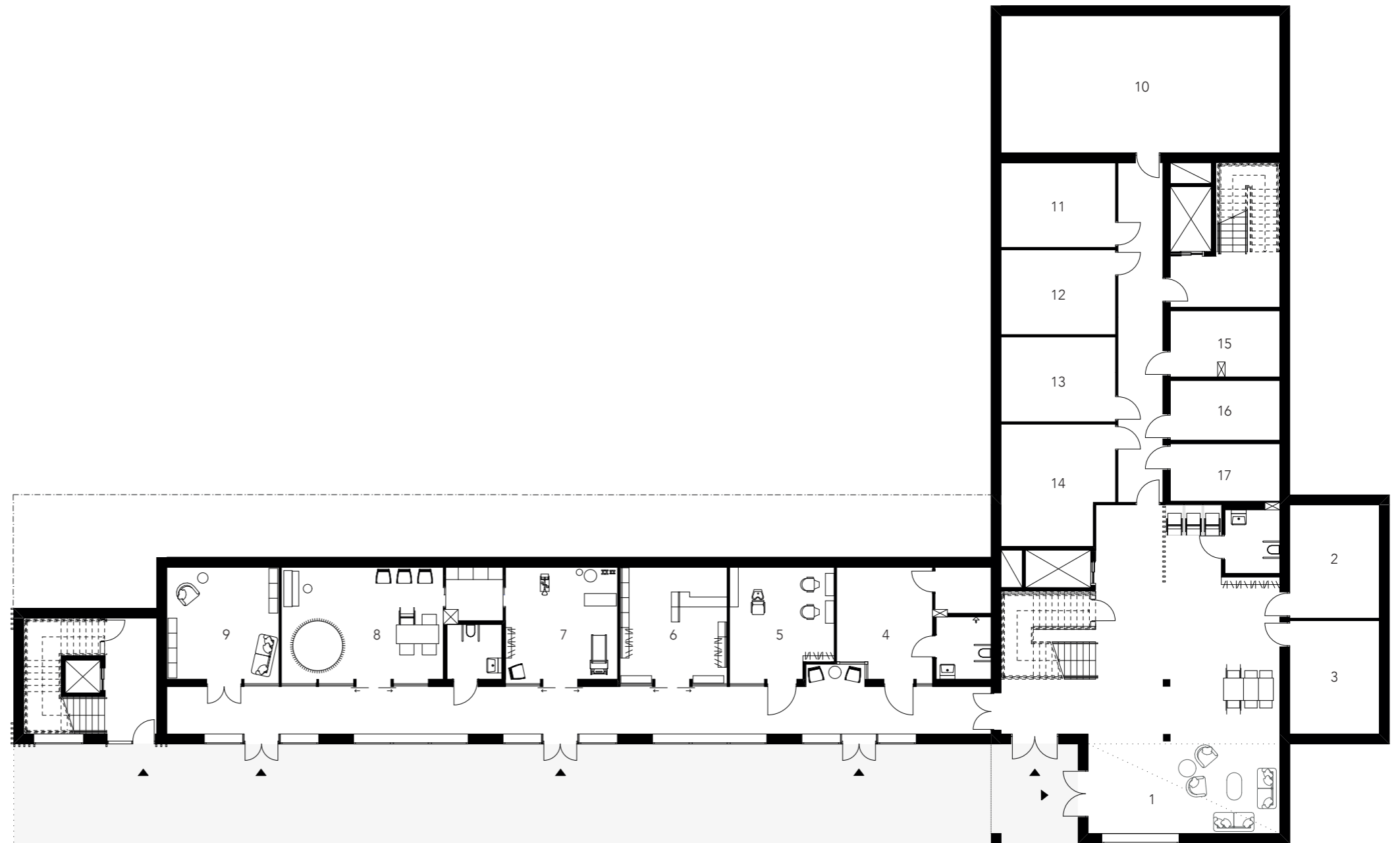


Floor plan | level 1 | main entrance - administration - restaurant | 1.200

0 5 10m

Main building | Level 0

- 1 Seating area
- 2 Storage, wheelchairs
- 3 Storage, garden
- 4 Flexi room
- 5 Hair dresser
- 6 Shop
- 7 Gym
- 8 Multi purpose room
- 9 Library
- 10 Ventilation
- 11 Storage, aid
- 12 General storage
- 13 Drug storage
- 14 Cleaing room
- 15 Electricity
- 16 Heating
- 17 Sprinkler room



⌚ Floor plan | level 1 | main entrance - administration - restaurant | 1.200

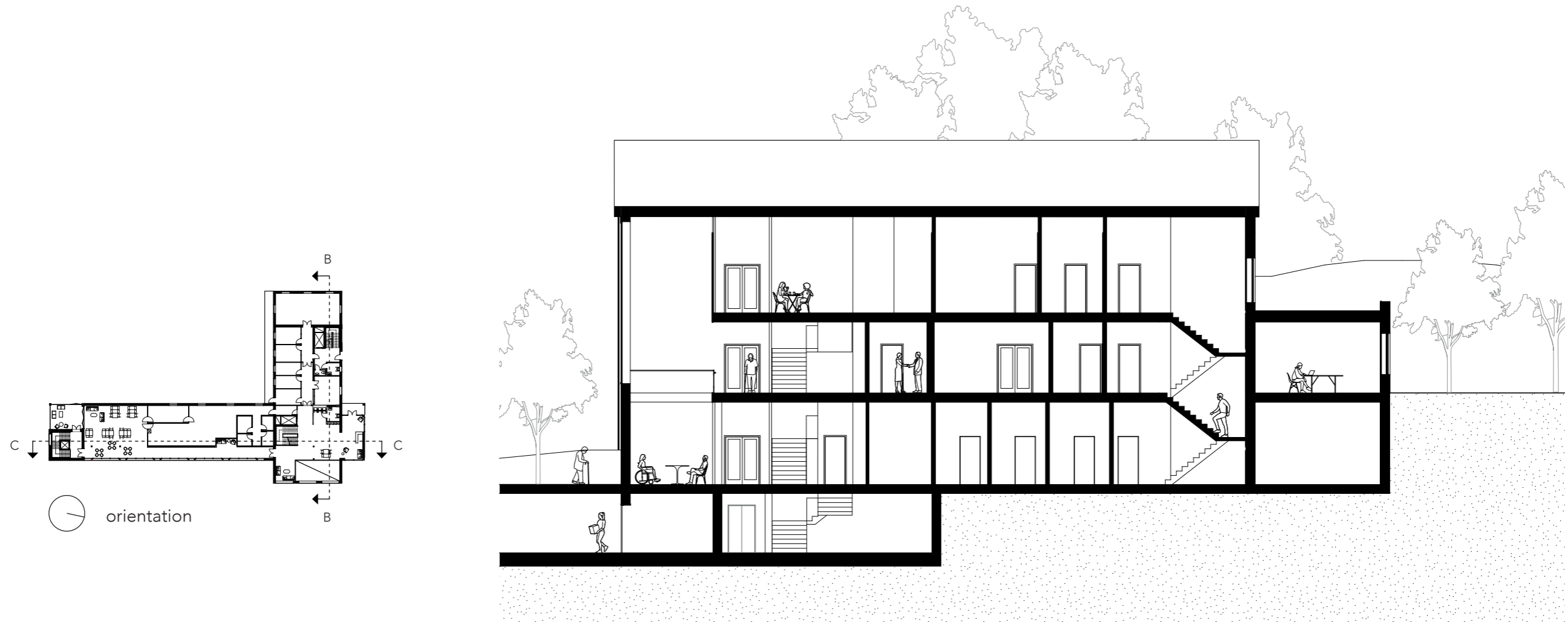
Level 0 contains storage, ventilation and additional rooms that don't have the necessity for natural light. These rooms are located in the part of the building embedded in the mountain.

In the area of the open staircase there is more indoor seating for residents and visitors. Wide doors lead to the outside and main square. Additional functions can be reached from the inside. These functions include the flexi room, hairdresser, shop, gym, library and multi purpose room. The multi purpose room can be used for activities such as a reading circle, group singing activities or similar.

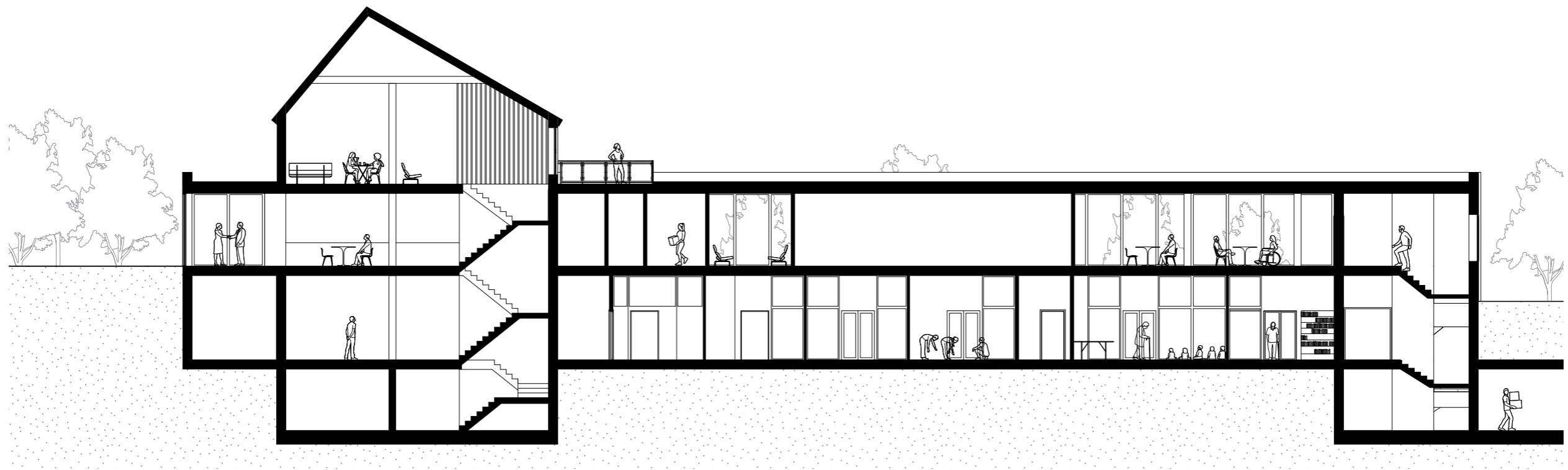


Elevation | Main Building | 1.200

0 5 10m



Section B | Administration - Staff - Meeting area | 1.200



Section C | Shops - Restaurant - Entrance | 1.200

0 5 10m

Perspectives | Main building



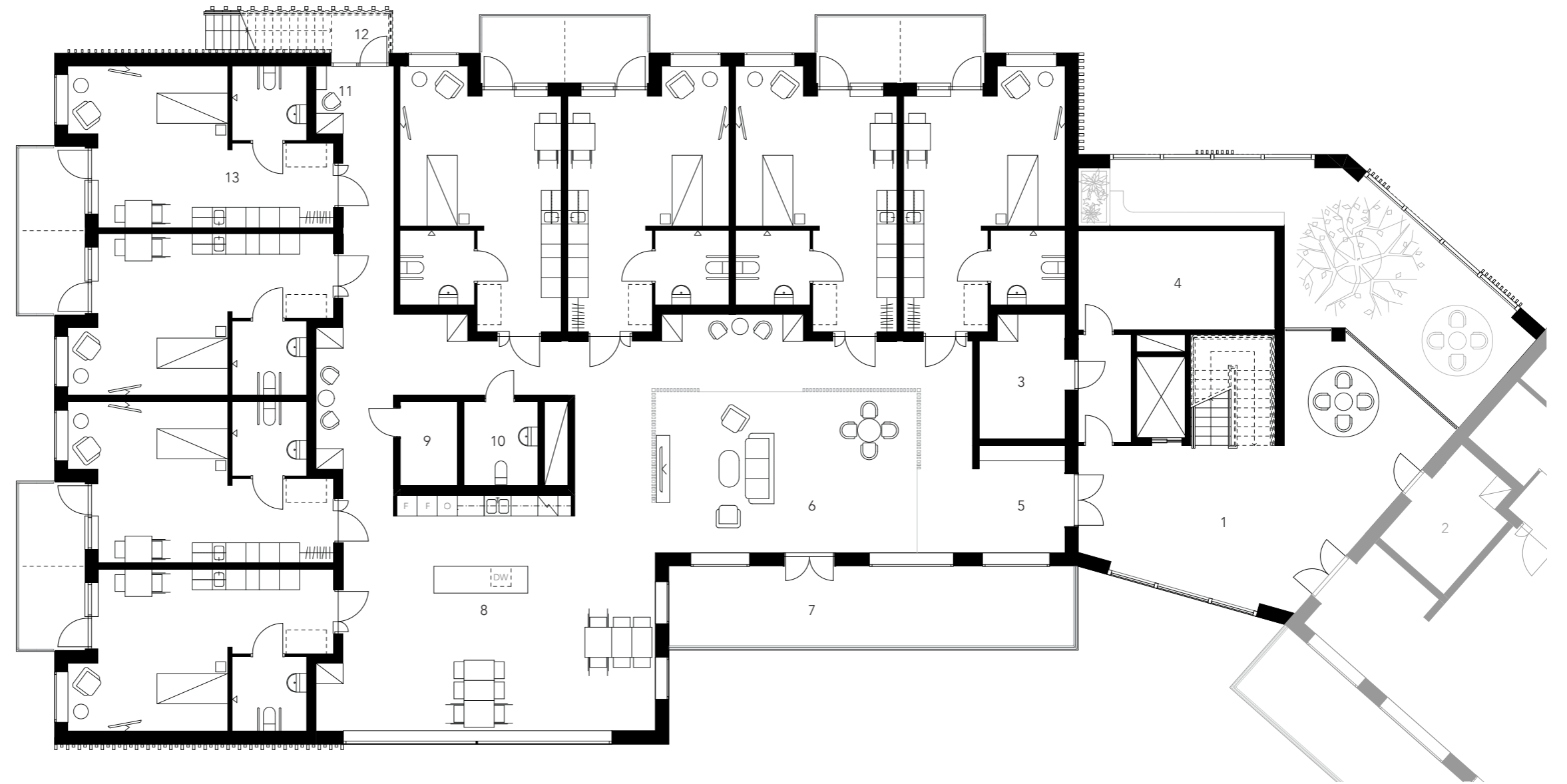
Perspective, Main entrance



Perspective, square

Unit

- 1 Entrance hall
- 2 Storage
- 3 Disinfection/waste
- 4 Laundry
- 5 Hall
- 6 Living room
- 7 Balcony
- 8 Kitchen
- 9 Cleaning room
- 10 Staff toilet
- 11 Reading corner
- 12 Fire exit
- 13 Apartment

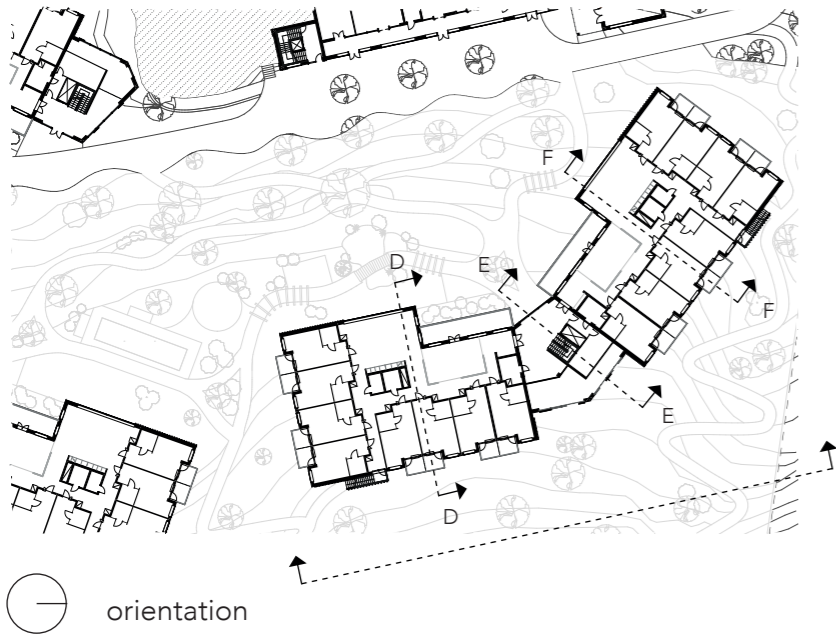


 Floor plan | Level 2 | Unit | 1.150

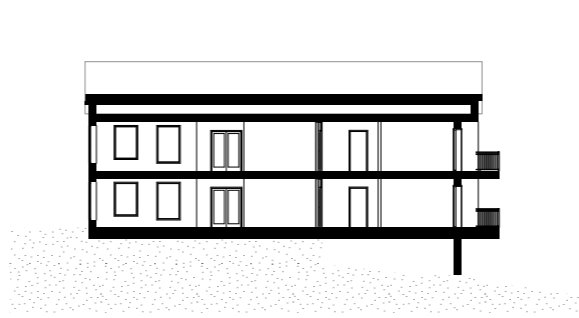
Two units share a common entrance that simultaneously serves as a winter garden, providing seating areas. It also contains the vertical circulation, as well as access to the staff communication and delivery corridor. In the entrance area shared and additional functions such as the laundry and waste room are located. Each individual unit has the common functions located centrally, with an open kitchen and living room. Panels can be placed and serve as dividers between the corridors to the individual apartments and the common areas, to create more privacy in front of the individual apartments.

The common area is directly connected to a terrace. The terrace of each unit is facing the central square. Along the kitchen is a staff restroom as well as a cleaning room. The purpose of having the common functions located centrally is to avoid long corridors and dead ends. To further give space for meeting people, "bays" are located between two individual rooms. One corridor is leading to the fire escape ending in another smaller bay housing a "unit library" where borrowed books from the common library in the main buildings can be placed or exchanged.

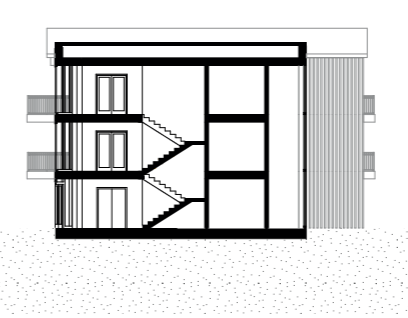
Unit



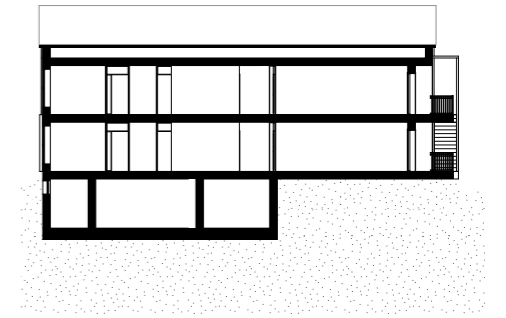
Placement in landscape



Section D | 1.400



Section E | 1.400



Section F | 1.400



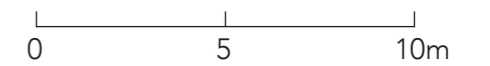
Elevation | Units | 1.200



Elevation | Units | 1.200



Elevation | Units | 1.200





Perspective, living room

Apartments

The apartments are 33.5 square meters in size. A separate storage is located on level -1, in the basement.

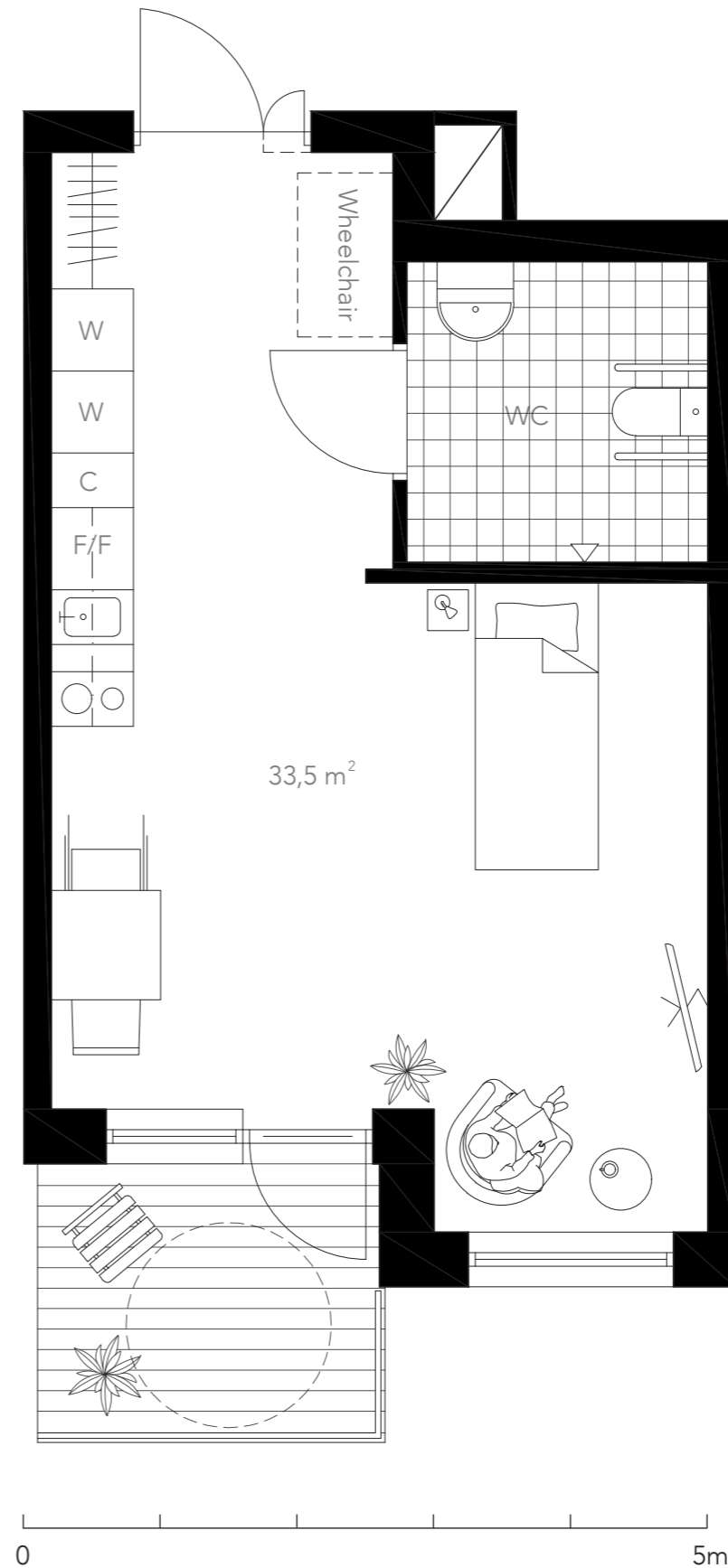
The apartment can also fit a wheelchair. The apartment contains storage and an individual bathroom at the entrance. The room then opens up to a comfortable and light living and sleeping area. Through a low window and the balcony door one is able to look outside from different angles and positions e.g. lying in bed or being seated.

Each apartment also has an individual balcony that is side by side with another apartment. Residents can choose if the balconies are kept connected and open as a bigger balcony or if a divider/plant is put into place, to generate more privacy. There are different options of the furnishing of the apartment possible.

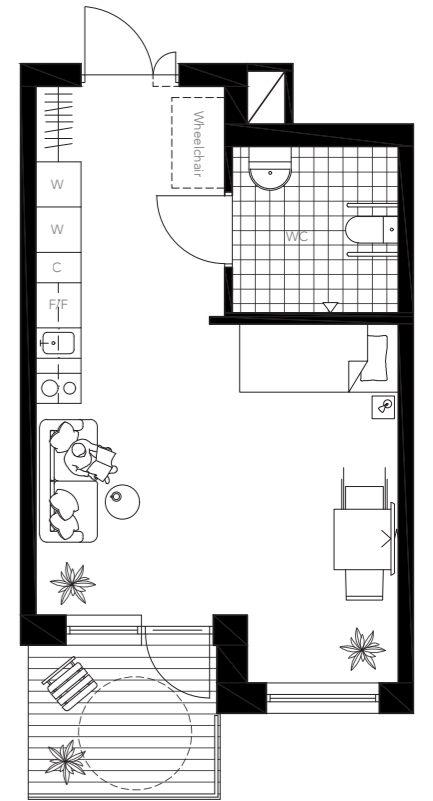
The walls allow for individually putting smaller shelves or picture frames into place.



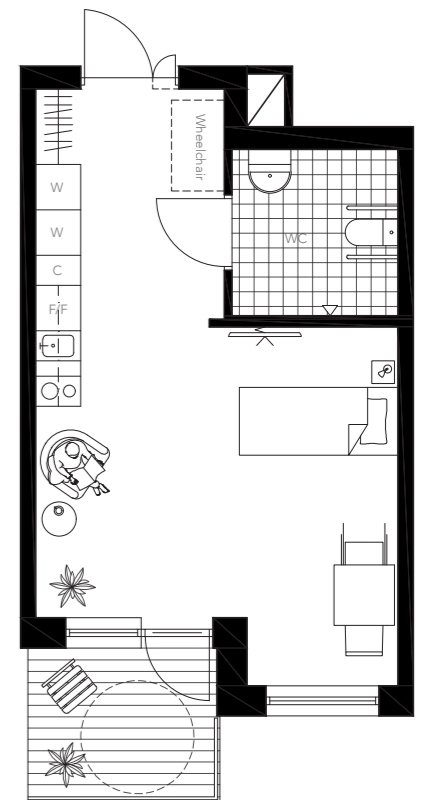
Axonometry | Apartment



Floor plan Apartment | 1.50

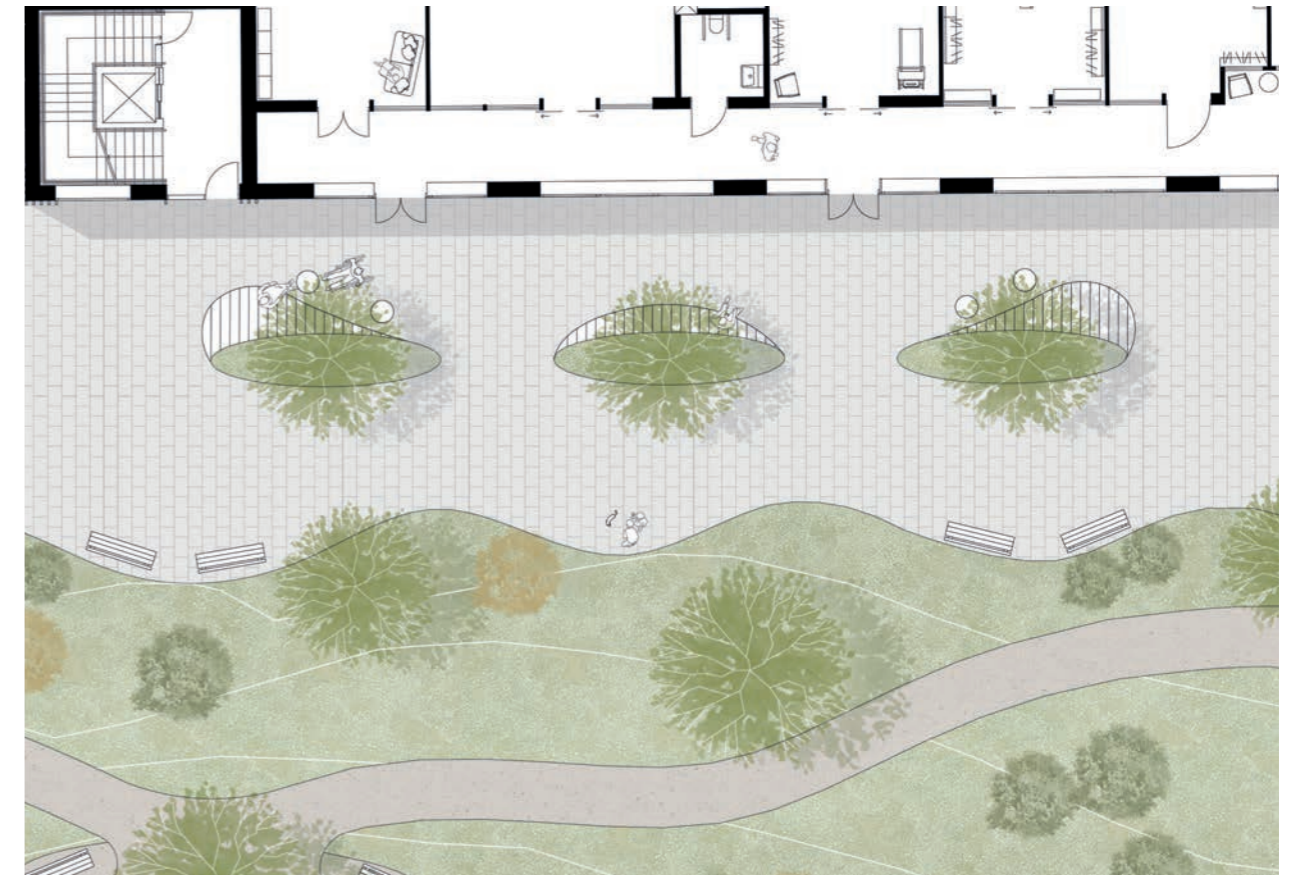


Alternative II | 1.100

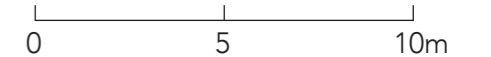


Alternative III | 1.100

Outside environments | Forest | Square | Cultivation garden



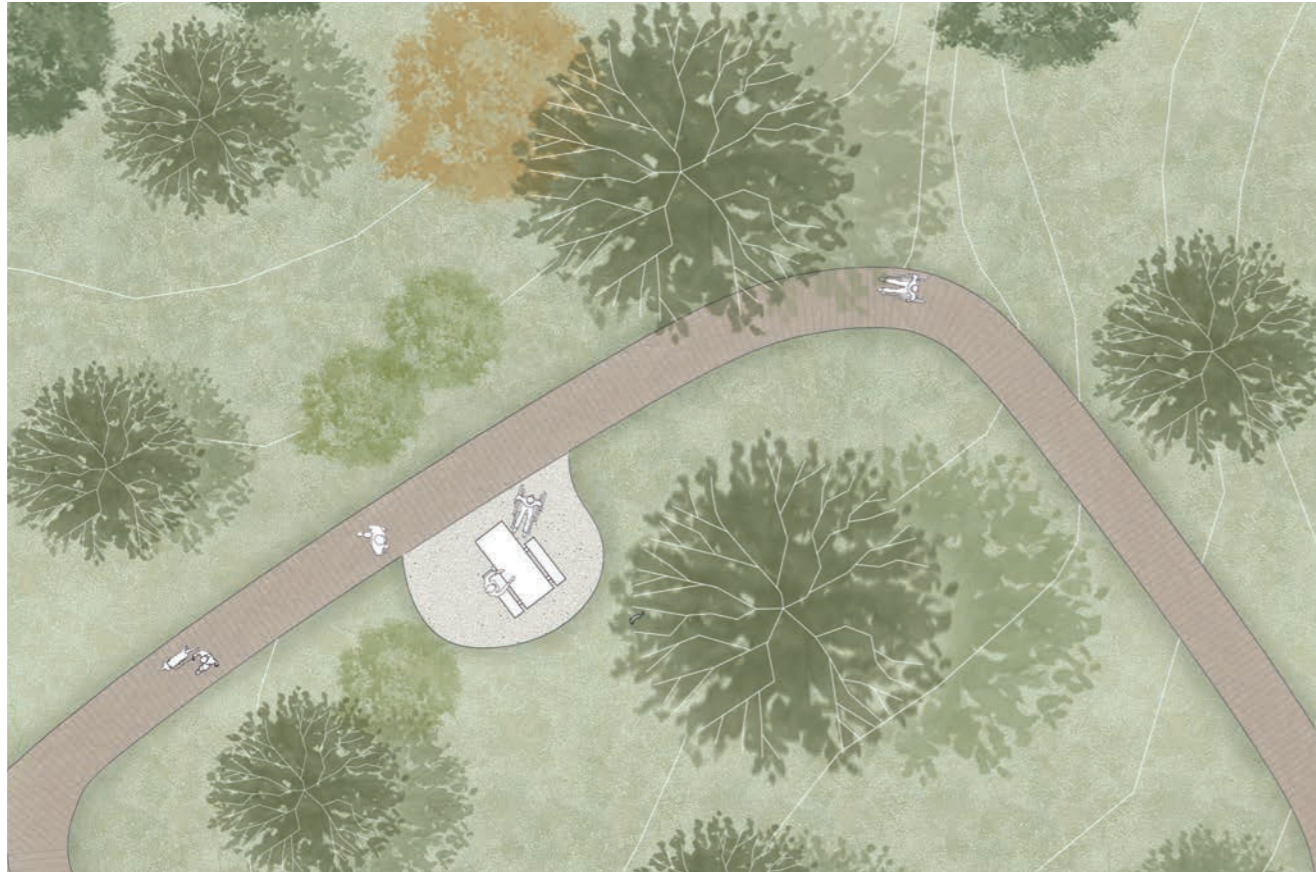
Plan | Square | 1:200



Generating different options through providing different outdoor environments was very essential for the project. These different environments not only create options in decision making and contributing to the feeling of independence for the residents. In addition residents with different backgrounds could find resemblance in these spaces. The forest, square and garden also provide different stimuli and activities for the residents.

Square

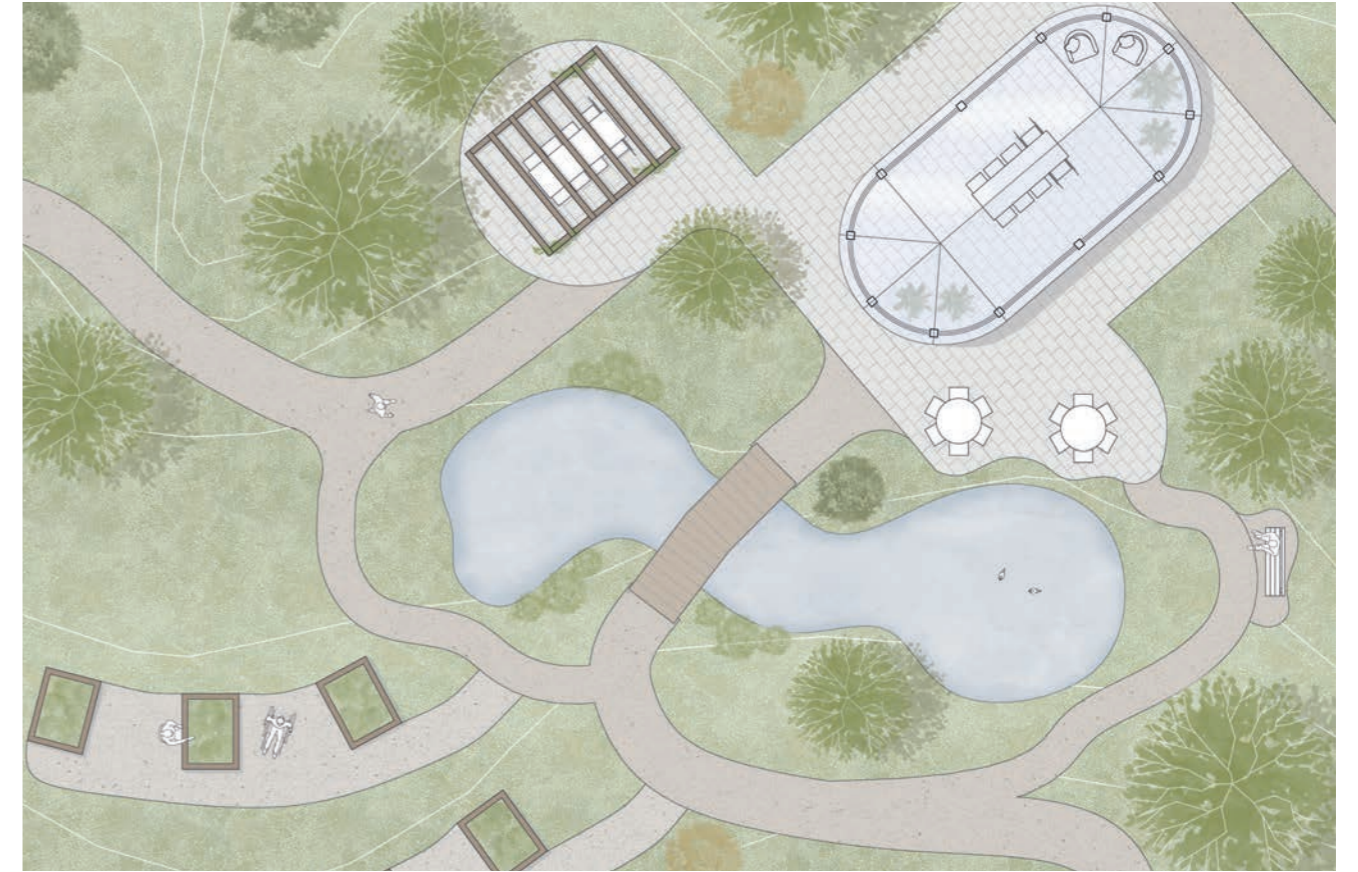
The square is divided into the avenue and the activity square. The avenue along the square provides different seating areas along the building and additional functions and shade is generated through the trees located in front of the building. Adjacent to the avenue the natural terrain is preserved and from the avenue a view over the greenery is generated.



Plan | Forest | 1.200

The forest

Wooden paths are leading through the forest, easily accessible for all residents and also open to use by the public. Along the path different seating is located to allow for taking breaks, sitting down and taking in the calm environment.



Plan | Cultivation garden and greenhouse | 1.200

0 5 10m

The cultivation garden

Within the garden area a greenhouse is located. In addition there is a pergola and outside seating and eating areas. Differently raised garden beds allow for residents, staff and the children from the preschool to take part in gardening activities. In addition to the garden beds there are different trees and bushes growing fruits such as apple trees and blueberry bushes.

A pond next to the greenhouse supports biodiversity in the area by attracting different birds and smaller animals. Residents can sit down on benches and feed the birds.